Sema4.ai

Work. Reimagined.

Enterprise AI agents are
the "killer app" of the AI era

Who is Sema4.ai?

We enable your enterprise to build, run,
and manage enterprise **AI agents** that
transform how your business works.

AI can be an incredible workforce collaborator, but most enterprises struggle to
tap its potential. Sema4.ai makes it easier to harness the power of AI by using AI
agents to drive operational efficiency, innovation, and significant cost savings for
businesses worldwide.

With Sema4.ai, your teams can train AI agents that are built on your business
processes, understand your data and applications, and perform the work you
assign them.

A significant **64%** of businesses believe that artificial intelligence will help increase their overall productivity.

– Forbes Advisor survey

What are AI agents?

AI agents are applications that use AI to
automate complex tasks, enhance productivity,
and enable seamless collaboration.
Key characteristics of Sema4.ai Agents are:

Defined in English
Agents are defined by business users,
simplifying deployment and updates.

Complete understanding
Understand enterprise applications, as well
as structured and unstructured data for
accurate task execution.

Autonomous operation
Work autonomously, improving continuously
through feedback and training for
enhanced efficiency.

Transparent reasoning
Provide full transparency and explainability
of reasoning and actions, building trust.

Secure and governed
Offer access controls, data encryption, and
industry standard governance features to
safeguard data and ensure responsible AI
usage.

> **Our recent collaboration with Sema4.ai led to the development of an AI agent that has significantly streamlined remittance matching for thousands of customer payments."**
>
> – **Paul Ferguson,** VP of Global Business Services, Emerson

What problems does Sema4.ai help you solve?

Traditional automation tools struggle with complex processes that require decision-making and adaptation.
Unlike traditional automation technologies and co-pilots, enterprise AI agents can actually replace human labor, automate end-to-end processes, and deal with ambiguity.

Employees lose time switching between apps and connecting to multiple data sources, hindering productivity and increasing errors.
Sema4.ai Agents complete tedious manual tasks quickly and correctly every time, improving overall work efficiency and business performance.

Undocumented "tribal knowledge" creates risks and makes scaling operations difficult.
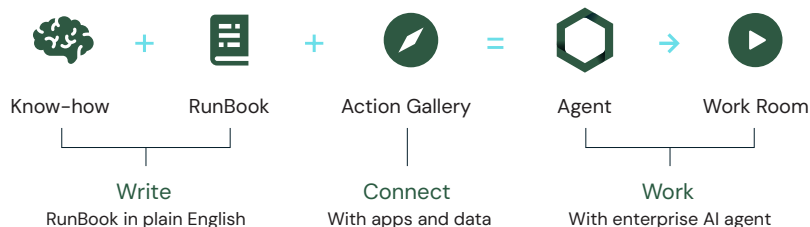AI agents capture and standardize tribal knowledge from business process leaders so it's easier to share and use. This reduces reliance on individual expertise and makes operations more scalable and resilient.

Limited staff and high labor costs lead to poor service and missed opportunities.
AI agents free up staff to handle high-value opportunities by automating repetitive tasks, providing 24/7 support, and delivering personalized customer interactions at a lower cost.

Who is Sema4.ai for?

Business process owners
Nobody else understands the nuances of your business like they do. We turn them into process architects with the power to create AI agents that flawlessly execute fine-tuned processes.

AI developers
Python developers can use powerful Visual Studio Code extensions to build advanced agent actions. Our open-source automation-as-code actions and data connectors allow full extensibility and control.

AI operators
Centralized management, security, and data privacy make it faster and easier to empower business users.

Business users
Employees can find, use, and work with agents in a single focused experience built from the ground up just for them.

The Sema4.ai Enterprise AI Agent Platform

Sema4.ai's platform is designed to support the entire lifecycle of AI agent development, deployment, and management. The portfolio is comprised of 5 core components:

Know-how + RunBook + Action Gallery = Agent → Work Room

Write
RunBook in plain English

Connect
With apps and data

Work
With enterprise AI agent

60-70%

of the work hours in today's global economy could theoretically be automated by applying a wide variety of existing technology capabilities, including generative AI, but doing so will require a lot in terms of solutions development and enterprise adoption.

– McKinsey & Company

How do you build an AI agent?

To understand how you build an agent, let's start with the building blocks. An AI agent is essentially a collection of actions that are used to interact with enterprise systems and applications. Those actions are based on runbooks that explain in simple terms how the agent should do its work to successfully complete a process. All the actions and agents are built in the Sema4.ai Studio. Here's how it works:

In Sema4.ai Studio

1. **Business process owners author the runbooks.**
   No technical skills required – they simply use natural-language English to describe their processes in detail.

2. **AI developers build the actions.**
   Using the Sema4.ai SDK and full-featured developer IDE, builders build, test, and validate actions and publish them to an action gallery.

3. **Manage your AI agents**
   By using pre-built templates, or starting from scratch, users can combine actions from the gallery to begin building agents in just minutes.

> " Koch Ag & Energy previously managed hundreds of complex invoices each month. Now, with Sema4.ai automating much of this work, the team can prioritize resolving critical discrepancies while still maintaining oversight."

– **Matt Hoag,** CTO, Koch, Inc.

What makes a good AI agent use case?

If you choose the right projects, your AI agents can immediately improve efficiency, increase customer satisfaction, boost innovation, spark growth, and cut costs. A good AI use case checks all these boxes:

✓ **It solves an urgent problem**
Unless you save money, improve efficiency, or eliminate a well understood problem, even a successful solution won't translate into adoption gains.

✓ **Humans execute the process frequently**
Choose business processes that must be done 24/7, but were previously difficult or impossible to automate.

✓ **The problem repeats across business divisions**
Repeatable solutions will amplify adoption as subsequent efforts become easier.

✓ **The solution aligns with key organizational imperatives**
If your CEO can talk about it on their earnings call, then it's definitely worth automating.

✓ **Clearly defined end-to-end process**
The agent will execute a complete process and will perform at least 90% of the work.

✓ **Requires understanding structured and unstructured data**
Our Document Intelligence Service can understand data and documents to provide context to the agent as it works.

✓ **Involves more than one app or system**
Sema4.ai excels when work crosses systems, APIs, or tools because of our automation-as-code framework.

Sema4.ai Enterprise AI Agents

Conversational ≫ Worker

Legal Agents — Regulatory compliance
Finance Agents — Invoice processing
Procurement Agents — Vendor evaluation & contract management
Analytics Agents — Ad-hoc data reporting
HR Agents — Onboarding & self-service
Risk Management Agents — Threat assessment & mitigation planning

Runbooks	Actions	Data	Always On
Natural language training	Connect enterprise apps	Access enterprise context	Continuous operation

What makes Sema4.ai different?

Our product 🔗

Sema4.ai is the first platform that enables business process owners to architect their own AI agents to perform work in the enterprise. We use generative AI to simplify the development of agents and actions, and we make it easy to seamlessly deploy agents into your production environment. Agents built with Sema4.ai use transparent reasoning tools, and our Control Room provides a single unified interface to audit the agent decision-making process and ensure accountable AI. Built from the ground up to be adaptive, Sema4.ai lets you choose your cloud environments and LLMs, and it gives you access to hundreds of data sources to provide the greatest flexibility and highest cost control for your agents.

Our people 🔗

With Sema4.ai, you're not just adopting a technology, you're partnering with a team that combines deep enterprise knowledge with cutting-edge AI expertise. Our founders are innovators in open source, big data, and automation-as-code. As previous leaders of the Enterprise Hadoop offerings at Hortonworks and Cloudera, the Sema4.ai team has already managed a quarter of the world's data with deployments in 90+ countries.

Top use cases for AI agents

We recommend starting with these use cases featured in Forbes:

1 Invoice processing
Automate complex invoice reconciliation and free up employees for high-value tasks.

2 Backend payment reconciliation
Automatically extract and match receivables data to increase speed and accuracy.

3 Regulatory compliance
Reduce risk, save time on monitoring and reporting, and ensure your compliance is up to date.

4 Employee onboarding
Streamline your process, improve new-hire experiences, and reduce HR admin burdens.

Get started with Sema4.ai

ⓘ Learn more about our company and AI Agents at **sema4.ai**

📅 Schedule a workshop or demo with **sales@sema4.ai**